

### Abstract of the Disclosure

Medical devices for removing gasses, such as gas bubbles and/or dissolved gasses, from a liquid to be delivered to a patient, and methods of use and making of such devices. In at least some embodiments, a gas permeable membrane material is used in the construction of the gas removal devices. In some embodiments, layers of gas permeable membrane material are used to construct a filter structure for removing gas from the liquid. In other embodiments, hollow tubes and/or fibers of the gas permeable membrane material are used to construct a filter structure for removing gas from the liquid. The gas removal devices may be used in any of a broad variety of liquid delivery systems and/or configurations.

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